Name _____ Date _____



Twelve Days of Christmas

Fill in the gifts each day and the total so far.

Gifts that day: the gifts of the day before, plus the new gift.
Total so far: the total of the day before, plus the gifts that day.



Day	New gift	Gifts that day	Total so far	
1	1 partridge in a pear tree	1	1	Example
2	2 turtle doves	3		
3	3 French hens		10	
4	4 calling birds			
5	5 gold rings			
6	6 geese a-laying	21		
7	7 swans a-swimming		84	
8	8 maids a-milking			
9	9 ladies dancing			
10	10 lords a-leaping	55		
11	11 pipers piping			
12	12 drummers drumming			

1. How many more gifts come on day **12** than on day **11**? _____ gifts

2. On which day does the total so far first go past **100**? Day _____

3. A year has **365** days. How many more than all the gifts? _____ more

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Name _____ Date _____

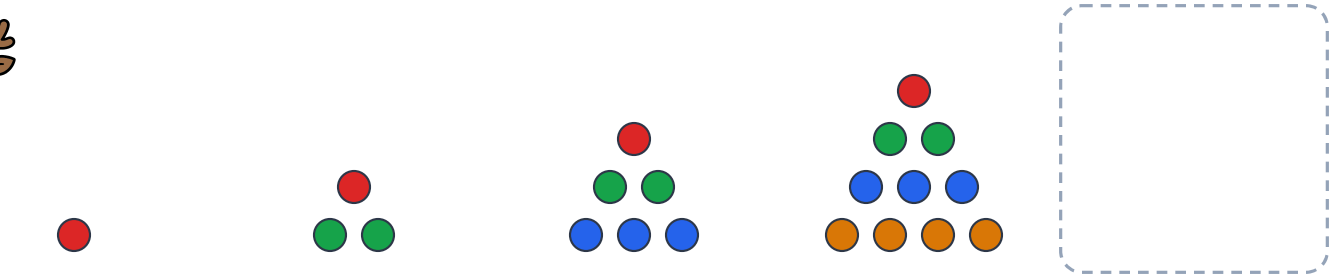


Twelve Days of Christmas

Each day's gifts make a triangle of dots.

1. Day 3 is 1 partridge, 2 doves and 3 hens: a row for each gift.
Draw day 5's triangle. Then count the dots of each day.

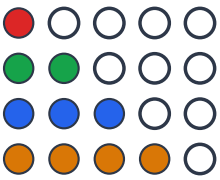




Day 1	Day 2	Day 3	Day 4	Day 5
1	3			

Day 5 adds _____ dots to day 4. Day 13 would add _____ dots to day 12.

2. Two triangles of day 4 make a rectangle: 4 rows of 5 dots.
Half the rectangle is day 4. Find each day the same way.



4 × 5 = 20 dots
Half of 20 is 10.

Example

Day 4:	4 × 5 =	20	half: 10
Day 6:	6 × 7 =		half:
Day 8:	8 × 9 =		half:
Day 10:	10 × 11 =		half:
Day 12:	12 × 13 =		half:

3. Odd or even? Write O or E under the gifts of each day.

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
1	3	6	10	15	21	28	36	45	55	66	78
O											

Without adding, is day 14 odd or even? _____ Day 16? _____

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Name _____ Date _____



Twelve Days of Christmas

Find how many of each gift come in all.

Each gift comes every day from its own day to day 12.
The gold rings come 5 at a time on days 5 to 12: that is 8 days.



Gift	Comes on	Each day		Days		In all	
1 partridge in a pear tree	days 1 to 12	1	×	12	=	12	Example
2 turtle doves	days 2 to 12	2	×		=		
3 French hens	days 3 to 12	3	×		=		
4 calling birds	days 4 to 12	4	×		=		
5 gold rings	days 5 to 12	5	×		=		
6 geese a-laying	days 6 to 12	6	×		=		
7 swans a-swimming	days 7 to 12	7	×		=		
8 maids a-milking	days 8 to 12	8	×		=		
9 ladies dancing	days 9 to 12	9	×		=		
10 lords a-leaping	days 10 to 12	10	×		=		
11 pipers piping	days 11 to 12	11	×		=		
12 drummers drumming	day 12	12	×	1	=	12	

1. Add the in all column. How many gifts come in all? _____ gifts

2. Which two gifts come the most? _____

3. Which gift comes as many times as the turtle doves? _____

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Name _____ Date _____



Twelve Days of Christmas

Use the price list to find each cost.

The Twelve Days Gift Shop (made-up prices)

partridge in a pear tree	$64	gold ring	$85 each
turtle dove	$25 each	goose	$46 each
French hen	$18 each	swan	$73 each
calling bird	$32 each		

1. Day 2's gifts: 1 partridge in a pear tree and 2 turtle doves

$64 + 2 \times 25 = 64 + 50 = \$114$

Example $ 114

2. Day 3's gifts: 1 partridge in a pear tree, 2 turtle doves and 3 French hens

$ _____

3. All of day 4's gifts

$ _____

4. All of day 5's gifts

$ _____

5. The 7 swans of day 7

$ _____

6. All 22 turtle doves in the song

$ _____

7. All 40 gold rings in the song

$ _____

8. All 42 geese in the song

$ _____

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Name _____ Date _____

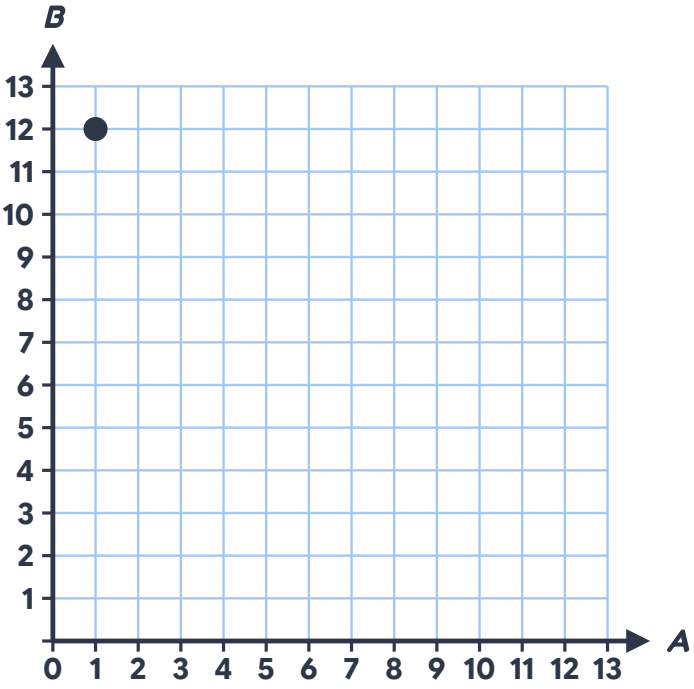


Twelve Days of Christmas

Two patterns side by side, and their graph.

Pattern A, the gift number: start at 1 and add 1.
Pattern B, the days that gift comes: start at 12 and subtract 1.

Gift	A	B	(A, B)
	1	12	(1, 12)
	2		
	3		
			
			
			
			
			
			
			
			
			



Plot every (A, B).
The first is done. Example



1. Add A and B in each pair. What is the sum every time? _____

2. Gold rings are gift 5. Use A × B: how many come in all? _____ rings

3. Which two gifts have the greatest A × B? Gifts _____

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Name _____ Date _____

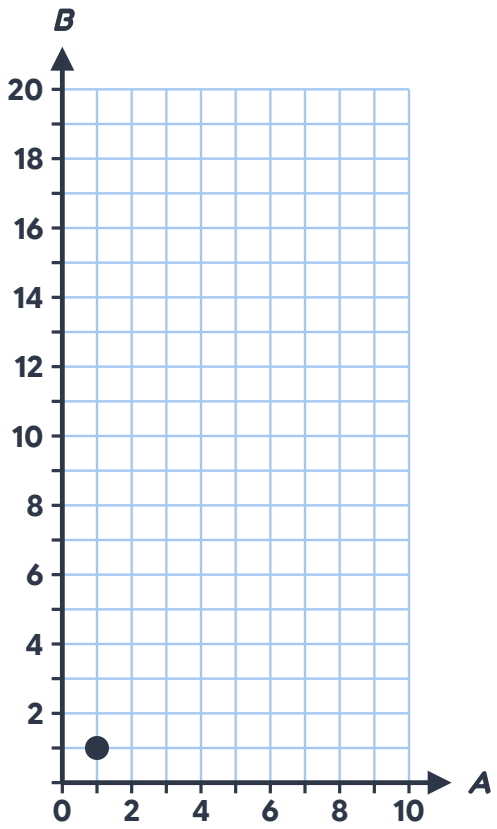


Twelve Days of Christmas

Gifts that day and the total so far, side by side.

Pattern A, gifts that day: start at 1, then add 2, add 3, add 4 and on.
Pattern B, total so far: start at 1, then add each new number of A.

Day	A	B	(A, B)
1	1	1	(1, 1)
2	3	4	
3			
4			
5			
6			
7			



Plot (A, B) for days 1 to 4.
The first is done. Example



1. Day 4: B is how many times A? _____ times

2. Day 7: B is how many times A? _____ times

3. Day 10: A is 55 and B is 220. B is how many times A? _____ times

4. Day 13: B is how many times A? Use the pattern. _____ times

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Name _____ Date _____



Twelve Days of Christmas

Solve each problem. Show your work.

1. The birds are the partridges, turtle doves, French hens, calling birds, geese and swans. How many birds come in all?

12 + 22 + 30 + 36 + 42 + 42 = 184



Example **184** birds

2. Every bird has **2** legs. How many legs do all **184** birds have?

_____ legs

3. The song has **364** gifts, and **184** of them are birds. How many more birds are there than other gifts?

_____ more birds

4. Day **3** of the song names **3** gifts, and day **12** names **12**. Naming one gift takes **4** seconds. How many seconds in all **12** days?

_____ seconds

5. Ava makes an ornament for each of the **364** gifts. She hangs the same number on each of **4** trees. How many go on each tree?

_____ ornaments

6. One kit makes **1** ornament, and kits come **12** to a box. How many boxes does a class need for **364** ornaments?

_____ boxes

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Name _____ Date _____



Twelve Days of Christmas

Fill in the gifts each day and the total so far.

Gifts that day: the gifts of the day before, plus the new gift.
Total so far: the total of the day before, plus the gifts that day.



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3	3 French hens		10
4	4 calling birds		
5	5 gold rings		
6	6 geese a-laying	21	
7	7 swans a-swimming		84
8	8 maids a-milking		
9	9 ladies dancing		
10	10 lords a-leaping	55	
11	11 pipers piping		
12	12 drummers drumming		

1. How many more gifts come on day **12** than on day **11**? _____ gifts

2. On which day does the total so far first go past **100**? Day _____

3. A year has **365** days. How many more than all the gifts? _____ more

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Name _____ Date _____

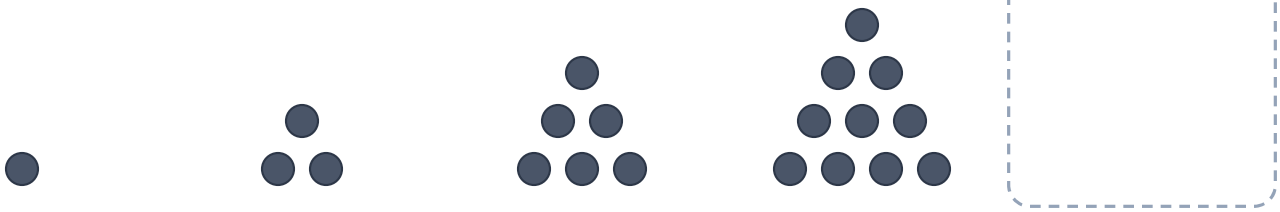


Twelve Days of Christmas

Each day's gifts make a triangle of dots.

1. Day 3 is 1 partridge, 2 doves and 3 hens: a row for each gift.
Draw day 5's triangle. Then count the dots of each day.

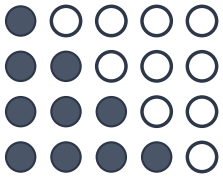




Day 1	Day 2	Day 3	Day 4	Day 5
1	3			

Day 5 adds _____ dots to day 4. Day 13 would add _____ dots to day 12.

2. Two triangles of day 4 make a rectangle: 4 rows of 5 dots.
Half the rectangle is day 4. Find each day the same way.



4 × 5 = 20 dots
Half of 20 is 10.

Example

Day 4:	4 × 5 = 20	half:	10
Day 6:	6 × 7 =	half:	
Day 8:	8 × 9 =	half:	
Day 10:	10 × 11 =	half:	
Day 12:	12 × 13 =	half:	

3. Odd or even? Write O or E under the gifts of each day.

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
1	3	6	10	15	21	28	36	45	55	66	78
O											

Without adding, is day 14 odd or even? _____ Day 16? _____

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Name _____ Date _____



Twelve Days of Christmas

Find how many of each gift come in all.

Each gift comes every day from its own day to day 12.
The gold rings come 5 at a time on days 5 to 12: that is 8 days.



Gift	Comes on	Each day		Days		In all	
1 partridge in a pear tree	days 1 to 12	1	×	12	=	12	Example
2 turtle doves	days 2 to 12	2	×		=		
3 French hens	days 3 to 12	3	×		=		
4 calling birds	days 4 to 12	4	×		=		
5 gold rings	days 5 to 12	5	×		=		
6 geese a-laying	days 6 to 12	6	×		=		
7 swans a-swimming	days 7 to 12	7	×		=		
8 maids a-milking	days 8 to 12	8	×		=		
9 ladies dancing	days 9 to 12	9	×		=		
10 lords a-leaping	days 10 to 12	10	×		=		
11 pipers piping	days 11 to 12	11	×		=		
12 drummers drumming	day 12	12	×	1	=	12	

1. Add the in all column. How many gifts come in all? _____ gifts

2. Which two gifts come the most? _____

3. Which gift comes as many times as the turtle doves? _____

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Name _____ Date _____



Twelve Days of Christmas

Use the price list to find each cost.

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$64 + 2 \times 25 = 64 + 50 = \$114$

Example $ 114

2. Day 3's gifts: 1 partridge in a pear tree, 2 turtle doves and 3 French hens

$ _____

3. All of day 4's gifts

$ _____

4. All of day 5's gifts

$ _____

5. The 7 swans of day 7

$ _____

6. All 22 turtle doves in the song

$ _____

7. All 40 gold rings in the song

$ _____

8. All 42 geese in the song

$ _____

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Name _____ Date _____

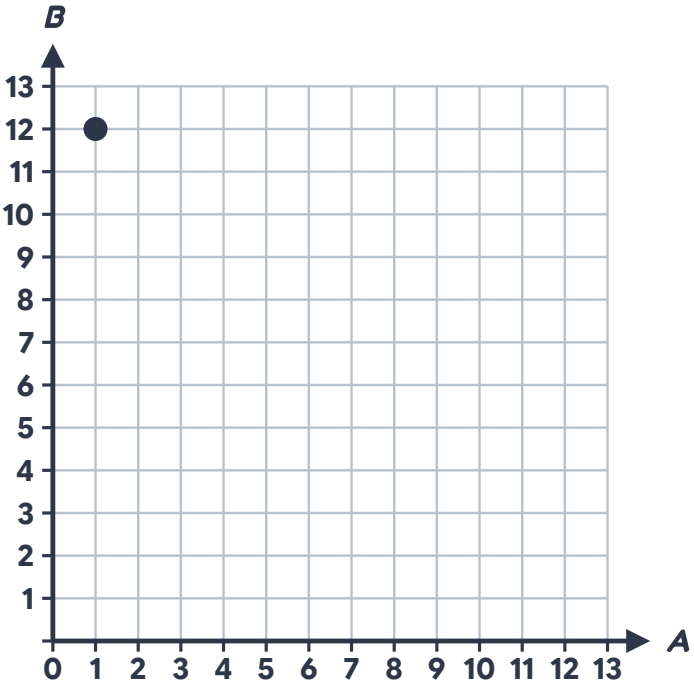


Twelve Days of Christmas

Two patterns side by side, and their graph.

Pattern A, the gift number: start at 1 and add 1.
Pattern B, the days that gift comes: start at 12 and subtract 1.

Gift	A	B	(A, B)
	1	12	(1, 12)
	2		
	3		
			
			
			
			
			
			
			
			
			



Plot every (A, B).
The first is done. Example



1. Add A and B in each pair. What is the sum every time? _____

2. Gold rings are gift **5**. Use A × B: how many come in all? _____ rings

3. Which two gifts have the greatest A × B? Gifts _____

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Name _____ Date _____

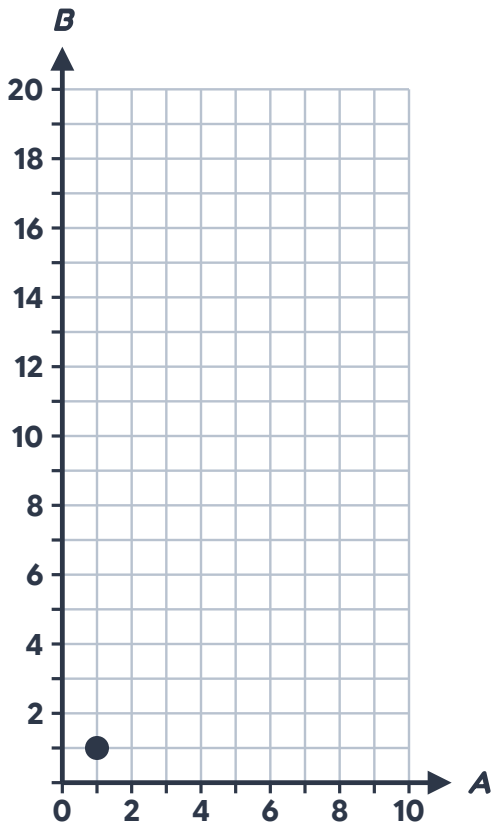


Twelve Days of Christmas

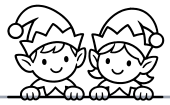
Gifts that day and the total so far, side by side.

Pattern A, gifts that day: start at 1, then add 2, add 3, add 4 and on.
Pattern B, total so far: start at 1, then add each new number of A.

Day	A	B	(A, B)
1	1	1	(1, 1)
2	3	4	
3			
4			
5			
6			
7			



Plot (A, B) for days 1 to 4.
The first is done. Example



1. Day 4: B is how many times A? _____ times

2. Day 7: B is how many times A? _____ times

3. Day 10: A is 55 and B is 220. B is how many times A? _____ times

4. Day 13: B is how many times A? Use the pattern. _____ times

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Name _____ Date _____



Twelve Days of Christmas

Solve each problem. Show your work.

1. The birds are the partridges, turtle doves, French hens, calling birds, geese and swans. How many birds come in all?

12 + 22 + 30 + 36 + 42 + 42 = 184



Example **184** birds

2. Every bird has **2** legs. How many legs do all **184** birds have?

_____ legs

3. The song has **364** gifts, and **184** of them are birds. How many more birds are there than other gifts?

_____ more birds

4. Day **3** of the song names **3** gifts, and day **12** names **12**. Naming one gift takes **4** seconds. How many seconds in all **12** days?

_____ seconds

5. Ava makes an ornament for each of the **364** gifts. She hangs the same number on each of **4** trees. How many go on each tree?

_____ ornaments

6. One kit makes **1** ornament, and kits come **12** to a box. How many boxes does a class need for **364** ornaments?

_____ boxes

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ANSWER KEY

Twelve Days of Christmas

Fill in the gifts each day and the total so far.

Gifts that day: the gifts of the day before, plus the new gift.
Total so far: the total of the day before, plus the gifts that day.

Day	New gift	Gifts that day	Total so far
1	1 partridge in a pear tree	1	1 Example
2	2 turtle doves	3	4
3	3 French hens	6	10
4	4 calling birds	10	20
5	5 gold rings	15	35
6	6 geese a-laying	21	56
7	7 swans a-swimming	28	84
8	8 maids a-milking	36	120
9	9 ladies dancing	45	165
10	10 lords a-leaping	55	220
11	11 pipers piping	66	286
12	12 drummers drumming	78	364

1. How many more gifts come on day **12** than on day **11**? **12** gifts

2. On which day does the total so far first go past **100**? Day **8**

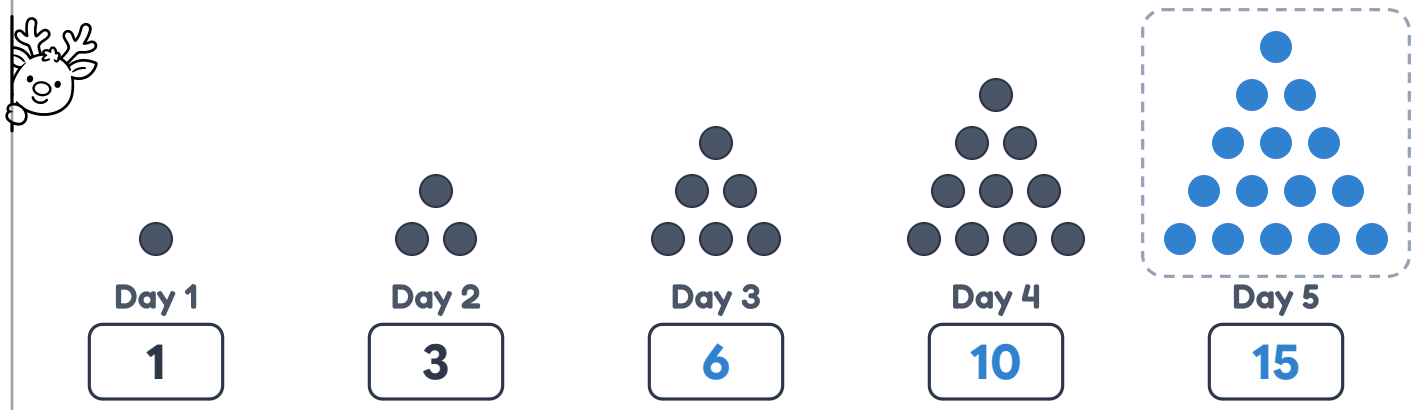
3. A year has **365** days. How many more than all the gifts? **1** more

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Twelve Days of Christmas

Each day's gifts make a triangle of dots.

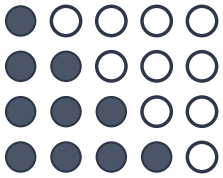
1. Day 3 is 1 partridge, 2 doves and 3 hens: a row for each gift.
Draw day 5's triangle. Then count the dots of each day.



Day 1	Day 2	Day 3	Day 4	Day 5
1	3	6	10	15

Day 5 adds **5** dots to day 4. Day 13 would add **13** dots to day 12.

2. Two triangles of day 4 make a rectangle: 4 rows of 5 dots.
Half the rectangle is day 4. Find each day the same way.



4 × 5 = 20 dots
Half of 20 is 10.

Example

Day 4:	4 × 5 = 20	half:	10
Day 6:	6 × 7 = 42	half:	21
Day 8:	8 × 9 = 72	half:	36
Day 10:	10 × 11 = 110	half:	55
Day 12:	12 × 13 = 156	half:	78

3. Odd or even? Write O or E under the gifts of each day.

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12
1	3	6	10	15	21	28	36	45	55	66	78
O	O	E	E	O	O	E	E	O	O	E	E

Without adding, is day 14 odd or even? **odd** Day 16? **even**

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Twelve Days of Christmas

Find how many of each gift come in all.

Each gift comes every day from its own day to day 12.
The gold rings come 5 at a time on days 5 to 12: that is 8 days.



Gift	Comes on	Each day		Days		In all	
1 partridge in a pear tree	days 1 to 12	1	×	12	=	12	Example
2 turtle doves	days 2 to 12	2	×	11	=	22	
3 French hens	days 3 to 12	3	×	10	=	30	
4 calling birds	days 4 to 12	4	×	9	=	36	
5 gold rings	days 5 to 12	5	×	8	=	40	
6 geese a-laying	days 6 to 12	6	×	7	=	42	
7 swans a-swimming	days 7 to 12	7	×	6	=	42	
8 maids a-milking	days 8 to 12	8	×	5	=	40	
9 ladies dancing	days 9 to 12	9	×	4	=	36	
10 lords a-leaping	days 10 to 12	10	×	3	=	30	
11 pipers piping	days 11 to 12	11	×	2	=	22	
12 drummers drumming	day 12	12	×	1	=	12	

1. Add the in all column. How many gifts come in all? **364** gifts

2. Which two gifts come the most? **geese and swans**

3. Which gift comes as many times as the turtle doves? **pipers piping**

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Twelve Days of Christmas

Use the price list to find each cost.

The Twelve Days Gift Shop (made-up prices)

partridge in a pear tree	$64	gold ring	$85 each
turtle dove	$25 each	goose	$46 each
French hen	$18 each	swan	$73 each
calling bird	$32 each		

1. Day 2's gifts: 1 partridge in a pear tree and 2 turtle doves

$64 + 2 \times 25 = 64 + 50 = \$114$

Example

$ 114

2. Day 3's gifts: 1 partridge in a pear tree, 2 turtle doves and 3 French hens

$ 168

3. All of day 4's gifts

$ 296

4. All of day 5's gifts

$ 721

5. The 7 swans of day 7

$ 511

6. All 22 turtle doves in the song

$ 550

7. All 40 gold rings in the song

$ 3,400

8. All 42 geese in the song

$ 1,932

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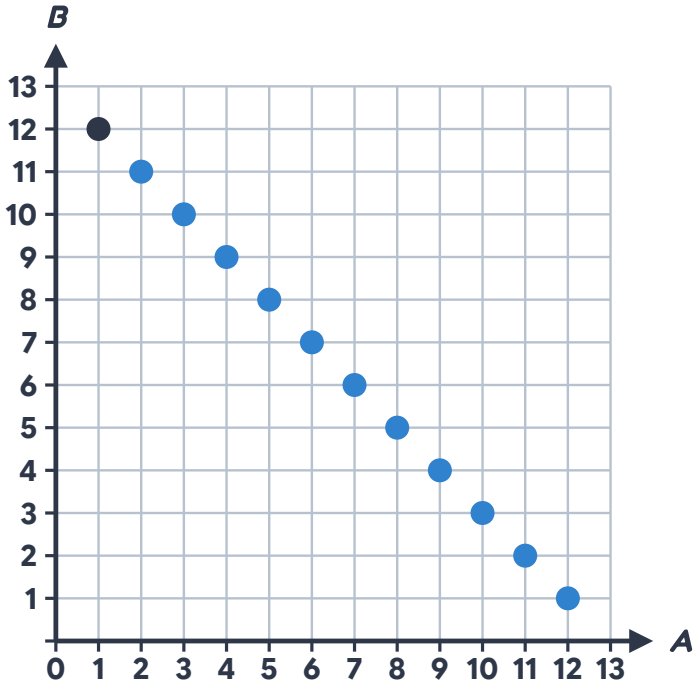


Twelve Days of Christmas

Two patterns side by side, and their graph.

Pattern A, the gift number: start at 1 and add 1.
Pattern B, the days that gift comes: start at 12 and subtract 1.

Gift	A	B	(A, B)
	1	12	(1, 12)
	2	11	(2, 11)
	3	10	(3, 10)
	4	9	(4, 9)
	5	8	(5, 8)
	6	7	(6, 7)
	7	6	(7, 6)
	8	5	(8, 5)
	9	4	(9, 4)
	10	3	(10, 3)
	11	2	(11, 2)
	12	1	(12, 1)



Plot every (A, B).
The first is done. Example



1. Add A and B in each pair. What is the sum every time? **13**

2. Gold rings are gift 5. Use A × B: how many come in all? **40** rings

3. Which two gifts have the greatest A × B? Gifts **6 and 7**

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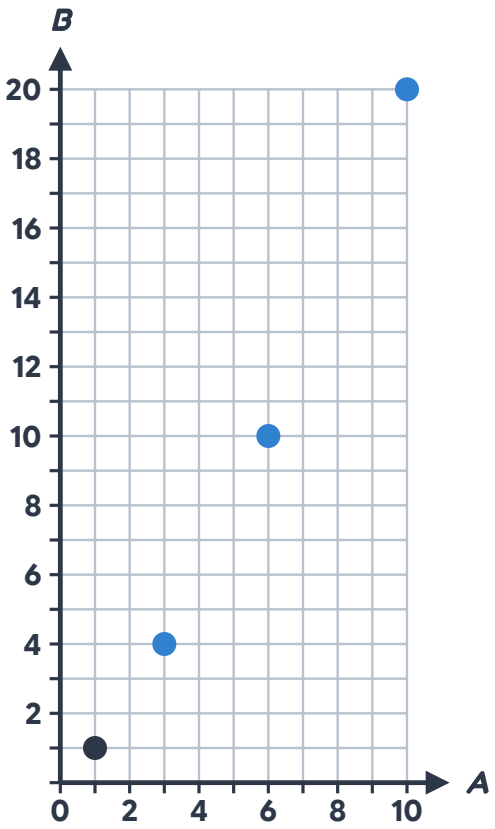
Twelve Days of Christmas

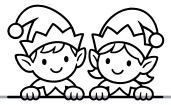
Gifts that day and the total so far, side by side.

Pattern A, gifts that day: start at 1, then add 2, add 3, add 4 and on.
Pattern B, total so far: start at 1, then add each new number of A.

Day	A	B	(A, B)
1	1	1	(1, 1)
2	3	4	(3, 4)
3	6	10	(6, 10)
4	10	20	(10, 20)
5	15	35	(15, 35)
6	21	56	(21, 56)
7	28	84	(28, 84)

Plot (A, B) for days **1** to **4**.
The first is done. **Example**





1. Day **4**: B is how many times A? **2** times

2. Day **7**: B is how many times A? **3** times

3. Day **10**: A is **55** and B is **220**. B is how many times A? **4** times

4. Day **13**: B is how many times A? Use the pattern. **5** times

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Twelve Days of Christmas

Solve each problem. Show your work.

1. The birds are the partridges, turtle doves, French hens, calling birds, geese and swans. How many birds come in all?

12 + 22 + 30 + 36 + 42 + 42 = 184



Example

184 birds

2. Every bird has **2** legs. How many legs do all **184** birds have?

368 legs

3. The song has **364** gifts, and **184** of them are birds. How many more birds are there than other gifts?

4 more birds

4. Day **3** of the song names **3** gifts, and day **12** names **12**. Naming one gift takes **4** seconds. How many seconds in all **12** days?

312 seconds

5. Ava makes an ornament for each of the **364** gifts. She hangs the same number on each of **4** trees. How many go on each tree?

91 ornaments

6. One kit makes **1** ornament, and kits come **12** to a box. How many boxes does a class need for **364** ornaments?

31 boxes

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